I 49.89:82/46/MAP E 1

CITRONELLE,ECOLOGICAL ATLAS OF COASTAL ALABAMA, HYDROLOGY AND CLIMATOLOGY. . . FWS/OBS-82/46-MAP E1. . . UNITED STATES DEPARTMENT OF THE INTERIOR . . . 1984

1 OF 1
12.5X
SUPTDOCS/GPO
MAP E1

I 49.89:82/46/MAP E1

MAP E1

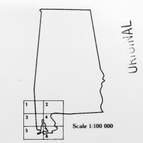
MMS 84-0052
FWS/OBS-82/46

# Citronelle

## ECOLOGICAL ATLAS OF COASTAL ALABAMA

### HYDROLOGY AND CLIMATOLOGY

ORIGINAL




TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. SOCIOECONOMIC FEATURES
C. SOILS AND LANDFORMS
D. OIL, GAS AND MINERAL RESOURCES
E. HYDROLOGY AND CLIMATOLOGY

1984

Produced by U.S. Fish and Wildlife Service and Minerals Management Service

Projection: UTM Zone 16
Horizontal datum: North American Datum of 1927
Vertical datum: Mean Sea Level

Shoreline, approximate mean high water, based on Mobile, Alabama, 1:100 000 scale, 1976 edition

Cultural, topographic, and hydrographic data from Bureau of Census TIGER files, U.S. Geological Survey, and other cooperating agencies and other sources.

SURFACE FRESHWATER AVAILABILITY

Stream discharge (millions gallons/day, mgd)

U.S. Geological Survey water sampling site and number

average discharge — measurement period (WY)
measurement period (WY)
mean annual flow (cfs)

Alabama Water Improvement Commission Water quality sampling site

Mobile 208 water quality sampling site

GROUND FRESHWATER AVAILABILITY

21 mgd — Ground water well discharge/where data is available

CC-1 — Geological Survey of Alabama well number

Approximate depth (ft) below sea level of the base of the Miocene-Pliocene aquifer (freshwater) capable of yielding as much as 1 mgd per well.

Approximate elevation (ft) above sea level to which water will rise in wells penetrating the Miocene-Pliocene aquifer

SALINITIES

—12— March-April surface salinities (parts per thousand, ppt)

—26— September-October surface salinities (ppt)

U.S. GEOLOGICAL SURVEY HYDROLOGIC UNIT BOUNDARY

03170008

AVERAGE MONTHLY PRECIPITATION (amp)

amp in inches, with period of record and weather station

WATER USE CLASSIFICATIONS

Public Water Supply, Fish and Wildlife

Swimming, Fish, Wildlife, And Shellfish Harvesting

Swimming, Fish and Wildlife

Fish, Wildlife, and Shellfish Harvesting

Fish and Wildlife

Agricultural and Industrial

Navigation

STUDY AREA OFFSHORE BOUNDARY

STUDY AREA INSHORE BOUNDARY




UNPUBLISHED FIELD
NOT AVAILABLE GRPV

THIS COASTAL ALABAMA ECOLOGICAL ATLAS WAS PRODUCED BY THE U.S.FISH AND WILDLIFE SERVICE DIVISION OF ECOLOGICAL SERVICES, NATIONAL COASTAL ECOSYSTEMS TEAM (NCET), WILDLIFE RESOURCES, INC., AND THE MINERALS MANAGEMENT SERVICE, OFFSHORE MINERALS MANAGEMENT, AND THE GENERAL PUBLIC TO DETERMINE WILDLIFE, CHANGES AND TO DESCRIBE OR ESTIMATE THE EFFECTS OF THOSE CHANGES ON THE ECONOMY, ENVIRONMENT, AND ECOLOGICAL DIVERSITY OF COASTAL ALABAMA IN SUPPORT OF THE COMMON MANAGEMENT OF OFFSHORE MINERAL RESOURCES. ALABAMA INCLUDES ZONES DEFINED APPROPRIATE TO WILDLIFE, HABITAT, AND ECONOMIC ASSESSMENT. THE ATLAS PROVIDES A SYNOPSIS OF THE ECOLOGICAL DIVERSITY, THE GEOGRAPHICAL FLOW OF FUNDING, STATE AND LOCAL GOVERNMENT DATA, AND THE ECONOMIC VALUE OF THE RESOURCES (FOR THE ENTIRE COASTAL ALABAMA AREA, NOT JUST FEDERAL AGENCIES).

THE ATLAS WAS BEGUN COMPILATION IN AUGUST 1981 SOURCE MATERIALS INCLUDED MAPS, AERIAL PHOTOGRAPHS, AND REPORTS. SINCE MANY SOURCES CONTAINED ONLY GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE LINES SHOULD NOT REFLECT THE EXACT LOCATIONS OR MEASUREMENT OF DISTANCES OR AREAS.

PRELIMINARY DRAFTS WERE COMPILED FROM INFORMATION ON THE U.S.G.S. 7.5 MINUTE SCALE MAPS WITH SUPPLEMENTARY INFORMATION FROM SEVERAL DIFFERENT SERVICE OF COMPILATION.

**PRIMARY SOURCES OF MAPPED INFORMATION:**

**WATER QUALITY AND DISTURBANCE:** Reed and McCoy 1971, 1972; South Alabama Regional Planning Commission 1975; Alabama Water Improvement Commission

**WATER USE CLASSIFICATIONS:** South Alabama Regional Planning Commission 1975

**SURFACE WATER:** Reed and McCoy 1971, 1972; U.S. Army Corps of Engineers 1969; South Alabama Regional Planning Commission 1975

**MISCIBLE PLUGGING AQUIFER:** Reed and McCoy 1971, 1972; Walter 1978

**SALINITIES:** Reed 1972

**U.S. GEOLOGICAL SURVEY HYDROLOGIC UNITS:** U.S. Geological Survey 1974

**AREA OF HURRICANE INUNDATION:** U.S. Army Corps of Engineers 1978

**AVERAGE MONTHLY PRECIPITATION AND WIND ROSES:** National Climatic Center 1975, 1976, 1979, 1980; Naval Weather Service Command 1974; Hydrometeorological Prediction Center 1981

**FOR COMPLETE REFERENCES SEE MAP NARRATIVE.**

I 49.89:82/46/MAP E 1